

On the Functional Characteristics of a Dual-
Purpose Hydrostatic Suspension of a Gyrocompass
During Vibration, by D. P. Muzlov, V. P. Fedorov,
7 pp.
RUSSIAN, per, Izvestiya VUZ, Priborostroyeniye,
Leningrad, No 5, 1972, pp 68-72.
JPRS 56723

Aug 72

The Effect of Periodic Perturbations on the Read-
ings of a Gyrotheodolite, by M. A. Sergeyev, 9 pp.
RUSSIAN, per, Izvestiya VUZ, Priborostroyeniye,
Leningrad, No 5, 1972, pp 72-77.
JPRS 56723

Aug 72

Concerning the Problem of Applying Dielectric
Films to the Electrodes of an Electrostatic
Gyroscope, by A. N. Balyasnikova,
A. M. Korovkin, 5 pp.
RUSSIAN, per, Izvestiya VUZ, Proberostroyeniye,
Moscow, No 6, 1972, pp 89-92.
JPRS 56915

Aug 72

Synthesizing a Gyroscopic Heading Indicator,
by Yu. A. Bur'yan, 8 pp.
RUSSIAN, per, Izvestiya VUZ, Priborostroyeniye,
Leningrad, No 7, 1972, pp 84-90.
JPRS 57280

Oct 72

Compass Effect of a Gyro With Forced Rotation of
the Gimbal Mount, by L. I. Kargu, V. A. Yablonskaya,
5 pp.
RUSSIAN, per, Izvestiya VUZ, Priborostroyeniye,
Leningrad, No 2, 1972, pp 90-93.
JPRS 57280

Oct 72

RUSSIAN

JPLS-58722
*24 ff*CSO:8344/1814 W
8 March 1973 SF

Leningrad, Izv. VUZ. Priborostroyeniye, Vol 16, No 1,
1973, pp 72-77, 61-65, 65-68, 68-71

IZVESTIYA VUZ, RADIOELEKTRONIKA
(Radio Electronics and Communications
Systems - monthly)
Translation begins with 1965,
Vol. 8, No. 1
Order from: The Paraday Press, Inc.
84 Fifth Avenue
New York, N.Y. 10011
1971: \$ 160.00/year USA and Canada
\$ 165.00/year elsewhere
\$ 25.00 single issues
Price of back volumes: \$ 160.00/year

Russ

A New Principle of Building Frequency-Independent,
Highly Directional Antennas with Electrical Scan-
ning of the Beam.

RUSSIAN, per, Radioelektronika, Vol 7, No 11,
pp 465-475.

DIA IN 471-69

Sci-Elec
Jan 69

372,705

Highly-Directional Spherical Antennas with Fixed
Wide-Band Properties, 25 pp.
RUSSIAN, per. Radioelektronika, Vol 7, No 11,
pp 485-494.
DIA IN 471-69

Sci-Elec
Jan 69

~~372,706~~
372,706

Izvestiya VUZ. Radioelektronika, Vol 10, No 1, 1967 -
Vol 10, No 6, 1967.

Cover-to-Cover by Faraday Press

Available by Serials

#2, JPRS - 50 254, pp 92-201.

RUSSIAN

CSO: 02017/72 W
10 March 1972 SF

1. Concerning the Effect of a Radome Subjected to Thermal Shock on the Effective Range of a Radar Station, by V. F. Mikhaylov.
2. An Analysis of the Effect of External Noise on the Angular Resolution Capability of Narrow-Beam Antennas, by Ye. A. Borov'yev.

Kiev, Radioelektronika, Vol.10, No. 5, 1967, pp 473-474
Vol. 10, No. 6, 1967, pp 607-609.

Please publish, include all formulas - copies may be clipped.

Certain Features of an Automatic Coordinate
Plotting Device Using a Binary-Quantized
Signal Storage Unit, by L. Ya. Novosel'tsov,
N. A. Pungin.
RUSSIAN, per, Izvestiya VUZ Radioelektronika,
Vol 10, No 8, 1967, pp 755-760.
AIR/FTD/MT-24-334-68

Sci-Elec
Apr 69

380,336

A Device for Automatic Identification of the
Color of Object, by V.A. Ileschko, A.I. Patrenko.

13 pp.

MESIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedeniy. Radioelektronika, Vol 10, No 8,

1967, pp 801-808

AIR/FTD/AF-24-349-68

sci/physics

1967 68

Theoretical and Experimental Investigation of
Disk Inhibiting Systems, by Z. N. Pasechnik.

4 pp.

RUSSIAN, per, Izvestiya VUZ. Radioelektronika,
Vol 10, No 8, 1967, pp 831-835.

FTD S-785 460-69

460-69

aug 69

388,557

Communication Lines With Single Band Modulation
in the Presence of the Doppler Effect, by
I. B. Petyashin. 5 pp.
RUSSIAN, per, Izvestiya VUZ. Radioelektronika,
Vol 10, No 8, 1967, pp 845-847.
FTD S-686 393 6.9
393-69

july 69

384,256

Zhurakhovskiy, V. A.

Dependence of Control Characteristics
of an Electronic Cyclotron Generator
on the Law of Distribution of Super
High Frequency Fields in the Direction
of Drift Particles.

RUSSIAN, per, Izvestiya Vuzov SSSR.
Radioelektronika, vol 10, no 11, 1967,
pp 1003-1008
NASA TT F-11,730

369,168

sci/elect
OCT 68

Magnetron-Type Cascade Amplifier, by
I. V. Lebedev.
RUSSIAN, per, Izv VUZ Radioelekt, Vol
10, No 11, 1967, pp 1009-1013.
NLL Ref: 5828.4F (12919)

Sci-Elec
Mar 69

377,007

Interference Immunity of Wideband Communication
System, by D. D. Naslirson. 10 pp.
RUSSIAN, per, Izv VUZ Radioelektronika, No 2,
1968, pp 115-121.

ACSI-J-7577

FSIC-HT-23-327-70

FTD Special SI-69

Sci-Nav
Jan 70

400,257

Transmission of Information in Binary
Systems with Determinant Feedback at
Frequency Manipulation of the Signal,
by M. I. Dorman,
RUSSIAN, per, Izv VUZ Radioelektronika,
Vol 11, No 2, 1968, pp 129-140.
FTD-S-486 / 34. 69

Mar 69

377,515

Effect of Channel Phase Distortions on
Interference Resistance in the Recep-
tion of Complex Signals, by V. Ye. Dyrda,
I. P. Panfilov.

RUSSIAN, per, Izv VUZ Radioelektronika,
Vol 11, No 3, 1968, pp 157-163.

FTD-S-4824 / 34-69

Nar 68

377,514

The Passing of Radio Pulses of Nanosecond
Duration Through Amplifiers of a Running
Wave in Tunnel Diodes, by D. A. Kabanov.
RUSSIAN, per, Izv VUZ Radioelektronika,
Vol 11, No 3, 1968, pp 240-246.
FTD-S-425 / 26-69

Mar 69

377,055

Synthesis of Filtration and Correction Circuits
in a PAF (Phase Automatic Frequency Control)
System, Separating from Noises a Signal, Modulated
by a Sinusoid Frequency, by Ye. S. Besspalov, et al
10 pp.

RUSSIAN, per, Iz VUZ. Radioelektronika, Vol 11
No 4, 1968, pp 324-331.

FTD S-668 289-69

289-69

july 69

384,234

Maximum Gain of Spherical and Conical Antennas, by
L. I. Ponomarev, 19 pp.
RUSSIAN, per, Izvestiya VUZ SSSR--Radioelektronika,
Vol 11, No 5, 1968.
ARM/FSTC/HT-23-716-69

Sci/Elect
Dec 69

397,191

Coefficient of Directive Gain of Convex Pencil-
Beam Antenna Arrays, by D. I. Voskresenskiy,
V. S. Filippov, 17 pp.
RUSSIAN, per, IVUZ. Radioelektronika, Vol 11, No 5,
1968, pp 411-425.
ARM/FSTC/MT-23-673-69

ANNO 11/11 23 DEC 70
ABE 5-7583

Sci/Elect
Jan 70

398,943

Switched Arc-Type and Spherical Antenna Arrays, by
D. I. Voskresenskiy, A. I. Gudzenko, 15 pp.
RUSSIAN, per, IVUZ. Radiotekhnika, Vol 11, No 5,
1968, pp 441-451.
ARM/FSTC/HT-23-671-69

*R0551T-2577

*R057C HT-23-671-69

Sci/Elect
Dec 69

398,881

Study of Frequency-Scanning Array of Radiators
on a Convex Curve, by R. A. Granovskaya. 11 pp.
RUSSIAN, per, Izv VUZ Radioelektronika, No 5,
1968, pp 452-459

ACSI J-7590

FSTC-HT-23-268-70

ARM/FSTC/HT-23-672-69

Sci-Nav

Inl 70

Principle of Designing Super Wide-Band Antennas,
by V. D. Kloyzner, V. P. Sorogin.
RUSSIAN, per, Izv. VUZ Radioelektronika, Vol 11,
No 5, 1968, pp 460-464.
(105)-69-193-RULL--MIT/Lin
Available from NTC - 72 - 10789 - 096

May 69

380,410

A New Principle for Construction for Frequency
Independent Sharply Directional Antennas with
Electric Beam Scanning, by A. I. Ardeb'yevskiy,
D. I. Voskresenskiy. 11 pp.

GOVERNMENT USE ONLY

RUSSIAN, per, Izv VUZ Radioelektronika, Vol 11,
No 5, 1968, pp 465-475.
ARM/FSTC/HT-23-489-69

Sci-Nav
Nov 69

935,936

The Angle-Frequency Sensitivity of Antennas With
Anomalous Dispersion of Transmission Lines,
by A. I. Ardab'yovskiy, 14 pp.
RUSSIAN, per, Izvestiya VUZ, Radioelektronika,
Kiev, Vol 11, No 5, 1968, pp 476-484.
JPRS 56219

June 72

Reducing the Angle-Frequency Sensitivity of Antennas
by Means of Compensated Waveguide Circuits, by
A. I. Ardab'yevskiy, 16 pp.
RUSSIAN, per, Izvestiya VUZ. Radioelektronika, Vol 11,
No 5, 1968, pp 495-510.
ARM/FSTC/HT-23-1029-72

FTD Special 232-69

Oct 72

Minimum Number of Amplitude Commutators in Com-
mutational Scanning Antennas and in Their Elements,
by S. M. Mikheyev. 26 pp.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedeniy. Radioelektronika, Vol 11, No 5, 1968,
pp 520-528.

~~G-551A~~

FTD Special 222 69

may 69

382,923

Effect of the Quality of Amplitude Commutators on
the Commutation Parameters of UHF Systems and
Amplification of Scanning Antennas, by
S. M. Mikheyev. 14 pp.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedeniy. Radioelektronika, Vol II, No 5, 1968
pp 529-538.

FTD S-586 244-69

may 69

381,275

Calculation of a Horn Type-Parabolic Antenna, by
B. M. Petropv. 2pp. ~~Polov~~
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedeniy. Radioelektronika, Vol 11, No 5, 1968,
pp 546-547.

~~S-551B~~

FTD, Special 2.22-69

may 69

382,924

Reduction of Angle-Frequency of an Array by Prism,
by A. I. Ardab'yevskiy, 8 pp.
RUSSIAN, per, Izvestiya VUZ, Radioelektronika,
Kiev, Vol 11, No 5, 1968, pp 549-552.
JPRS 56219

June 72

Certain Correlations of the Phase-Frequency
Radio Direction Finding Method, by
A. G. Okhonskiy. 4 pp.
RUSSIAN, per, Izvestiya VUZ Radioelektronika,
Vol 11, No 6, 1968, pp 614-616.
FTD S-604 147 282 (..)

june 69

384,141

Effect of Reflections from Waveguide on the
Polarization Pattern of a Slot with Controlled
Polarization, by V. I. Chebotarev.

RUSSIAN, per, Izv VUZ Radioelektronika, No 6,
1968, pp 643-646.

•ACSI-J-7582

•FSTC-HT-23-262-70

Completed Card in CTS

Sci-Elec

Dec 69

Basic Concepts and Prospects of Optoelectronics,
by Ye. I. Adirovich. 24 pp.
RUSSIAN, per, Izvestiya VUZ, Radioelektronika,
Vol 11, No 7, 1968, pp 679-694.
FTD S-~~649~~ 249-69

june 69

384,187

Physical Approach to the Problem of Reliability
of Microelectronic Equipment, by A. G. Aleksenko.
RUSSIAN, per, IZvestiya VUZ Radioelektronika,
Vol 11, No 7, 1968, pp 704-718.
FTD HT Special 587-69

dec 69

398,568

Design of Integrated Circuits with the Use of
Digital Computers, by V. V. Petukhov, O. S.
Poturayev.

RUSSIAN, per, Izvest, VUZov S.S.S.R., Radio-
elektronika, Vol 11, No 7, 1968, pp. 719-729.
LL (156)-69-312

Aug 69

388,827

Design of Integrated Circuits With the
Use of Digital Computers, by
V. V. Petukhov.
RUSSIAN, per, Izvestiya Vysshikh
Uchebnykh Zavedenii. Radioelektronika,
Vol 11, No 8, 1968, pp 719-729.
NTC 72-10994-09A

May 72

Electron-Optical Multistable Devices, by
O. F. Men'shikh, 14 pp.
RUSSIAN, per, Izv VUZ, Radioelektronika, Vol 11,
No 9, 1968, pp 970-980.
NAV/NIC/Tran-3021-70

Sci/Elect
July 70

Specialized Machine for Expanding the Determinants
of Matrices, by R. P. Bazilevich.
RUSSIAN, per, Izv VUZ Radioelektronika, Vol 11,
No 11, 1968, pp 1198-1203.
FTD HT Special 217-70

Sci-Math
Jul 70

Errors in the Experimental Determination of
the Probability Density of an Ergodic Random
Process, by Ye. I. Kulikov.

RUSSIAN, per, Izv VUZ Radioelektronika,
Vol 11, No 12, 1968, pp 1303-1306.
Dept of Navy APL/JHU T-2816

2316

Sci-Phys
Nov 69

395,734

*Problem of Shielding a Radar Receiver With a
Limiter From Pulsed Noise, by Zachebitskiy A.A.;
RUSSIAN, per, RADIOELEKTRONIKA, Feb 1969,
Vol 12, pp 136-143
FTD-HT Special 71-116*

April 71

Synthesis of Pulse Signals with Good Properties
of the Uncertainty Function, by A. F. Terpugov,
1969, pp 157-173.

RUSSIAN, per, IZVUZ, Radioelektronika, Vol 12,
No 2, 1969, pp 157-173.

LL-AZT-70-39

Synthesis of Pulse Signals

June 70

Classification of Unitron Switching Circuits,
by A. N. Karmazinukiy.
RUSSIAN, per, Izv VUZ Radioelektronika, Vol 12,
No3, 1969, pp 230-240.
FTD HT Special 179-80

Sci-Elec
Jul 70

Gunn Effect and its Applications, by
V. M. Kuznetsov, O. K. Mokeyev, 29 pp.
RUSSIAN, per, Izvestiya VUZOV SSR --
Radioelektronika, Kiev, Vol 2, No 4, 1969,
pp 319-341.
JPRS 48361

Sci-Elect & Elect Engr
Jul 69

386,188

Components for Functional Synthesis of Radio
Engineering Microelectronic Equipment, by
L. N. Kolesov', 19 pp.
RUSSIAN, per, Izvestiya Vuzov SSSR —
Radioelektronika, Moscow, Apr 1969, pp 408-420.
JPRS 48724

Sci-Elect & Elect Engr
Sept 69

389,279

Motoor Radio Elektronich, by Yo. I. Fialko. 26 pp.
RUSSIAN, per, Izvestiay Vysshikh Uchebnykh Zavedeniy.
Radioelektronika, Vol 12, No 5, 1969, pp 445-460.
AIR/FTD/HC-23-396-70

April 71

Improving the Efficiency of Two Methods of Binary
Storage, by V. D. Pavlov.
RUSSIAN, per, Izv VUZ Radioelektronika, Vol 12,
May 1969, pp 535-539.
FTD HT Special 262-70

Sci-Elec
Sep 70

Synthesis of Arrays of Passive Dipoles, by
A. F. Chaplin.
RUSSIAN, per, *elektronika* Izv VUZ Radiotekhnika, Vol 12,
No 6, 1969, pp 559-562.
Dept of Navy APL/JHU T-2361

Sci-Phys
Jan 69

399,004

High-Speed Transistor-Transistor Logic Elements
with Complex Inverters, by V. P. Aleksandrov,
A. I. Fedoseyev, 18 pp.
RUSSIAN, per, Izvestiya vuzov SSSR - Radio-
elektronika, Kiev, Vol 12, No 7, 1969,
pp 660-671.
JPRS 50969

Sci-Elect & Elect Engr
Jul 70

SYMBOLIC AND ABBREVIATED EQUATIONS OF MICROWAVE SYSTEMS

UTK IN, U. M. LANGUAGE-RU COUNTRY-UR

IZV. VUZOV SSSR- RADIOELEKTRON., TCM X11, NO.
8, 1969, 838-44

FSTC-HT-23-0573-73

Designing a Dynamic Inverter with Mos Transistors,
by S. G. Basiladze, B. C. Mochkin, 14 pp.
RUSSIAN, per, Izvestiya vuzov SSSR - Radio-
elektronika, Kiev, Vol 12, No 8, 1969,
pp 887-895.
JPRS 50969

Sci-Elect & Elect Engr
Jul 70

Research on Characteristic Microelectronics Logical
Schemas for Computer Application, by A.B. Yaremenko.
RUSSIAN, per, Izvestiya VUZOV SSSR-Radioelektronika
Vol XII, No 8, 1969, pp 916-924.
FTD-HT Special 71-26

Design of General Purpose Feed Logic Circuits, by
V. D. Baykov, and A. N. Karmazinskiy.
RUSSIAN, par, IVUZ, Radioelektronika, Vol 12,
No 8, Aug 1969, pp 936-940.
FTD HT Special 405-70

sci
feb 71

Low-power Microwave Electron Generators,
by M. B. Golant, 15 pp.

RUSSIAN, per, Izvestiya VUZOV SSSR -- Radio-
elektronika, Kiev, Vol XII, No 9, 1969, pp 950-
961.

JPRS 49569

Sci-Elec
Jan 70

400,503

K. P. Burneyka

Two-cavity Klystron parameter optimisation. 7 pp.
RUSSIAN, Izv. VUZ. Radioelektronika, Vol 12, No 9, 1969
pp 1018-1022
AIR/FTD-HT-23-1196-72

nov 72

REQ TR CHECK

20-4-31

TD88

ENGLISH TITLE UNKNOWN

KOTSERZHINSKIY B A

UR: IVUZ. RADIOELEKTRONIKA, vol 12, nr 9,
1969, pp 1057-1062*In process As*
HS-23-71-0660

REQ TR CHECK

20-4-34

TD91

ENGLISH TITLE UNKNOWN

GURFEYN RE: MOLOKOVSKIY S I

UR: IVUZ. RADIOELEKTRONIKA. 1969. vol 12,
nr 9, pp 1068-1076*In process: DS**HS-13-71-1659**1. 1969
7. 1969*

The Effect of the Plasma Sheath Surrounding a
Flight Vehicle on the Effective Range of Radar,
by V. F. Mikhaylov. 5 pp.
RUSSIAN, per, Radioelektronika (Radio Electron-
ics), Vol 12, No 10, 1969, pp 1238-1240.
AIR/FTD/HT-23-15-71

July 71

A Method for Determining the Fourier Coefficients,
by V. G. Kriksunov, A. S. Tetel'baum.
RUSSIAN, per, Izv VUZ. Radioelektronika, Vol 12,
No 12, 1969, pp 1460-1462.
Dept of Navy APL/JHU T-2468

June 71

Operational Range of Side-Scan Radars, by
I. M. Daranov.
RUSSIAN, per, Izv VUZ. Radioelektronika, Vol 12,
No 12, 1969, pp 1473-1475.
Dept of Navy APL/JHU T-2450

Sci/Elect
Sept 70

Basiladze, S. C.

Calculating the Parameters of a Memory Subsystem with an MOS Transistor of a Single Type
15 pp.

RUSSIAN, per, Izvestiya Vuzov SSSR Radioelektronika, Moscow, vol 13, no 1, 1970, pp 3-11.
JPRS 50654

sci-elec
june 70

REQ TR CHECK

22-4-12

TE30

ESTIMATE OF COMMUNICATION EFFICIENCY IN
MULTIPATH CHANNELS

DAVYDOV A M

UR: IVUZ. RADIOELEKTRONIKA, JAN 1970,
vol 13, nr 1, pp 65-67

*In Process As**HS-23 71-0104**Key
26 APR 71*

REQ TR CHECK

17-11-5

BR70-2202

Superwideband antenna

Ivanov, I.T.

Russ: Radioelektronika, vol. 13, jan 1970

pag. 74-76

In process As
HT-23-71-21

289
3 Dec 70